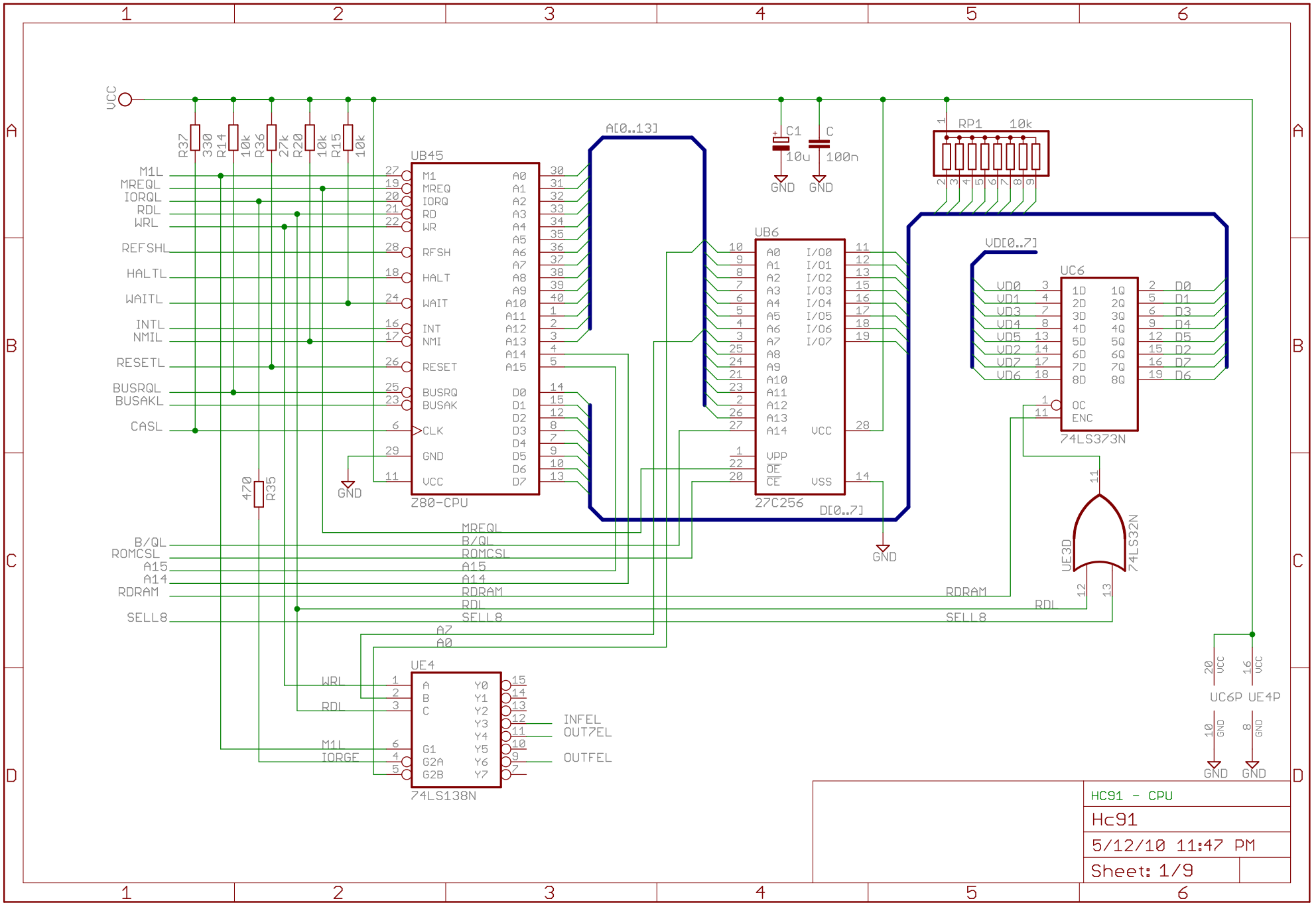
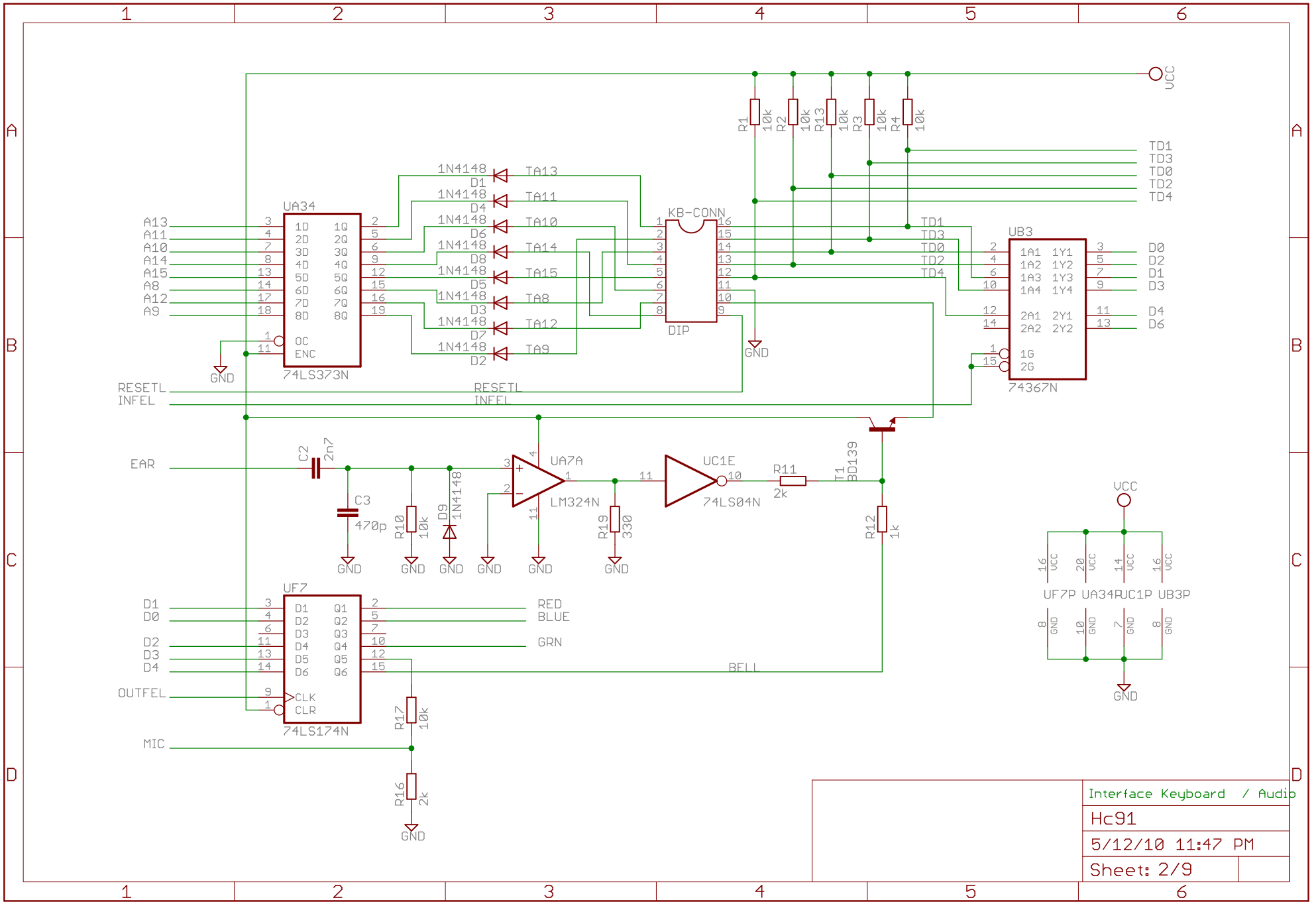

VCC
R37 330
R14 10k
R36 27k
R20 10k
R15 10k
RP1 10k
C1 10u
C 100n
GND
A[0..13]
UB45
Z80-CPU
M1L
MREQL
IORQL
RDL
WRL
REFSHL
HALTL
WAITL
INTL
NMIL
RESETL
BUSRQL
BUSAKL
CASL
UB6
27C256
D[0..7]
VD[0..7]
UC6
74LS373N
UE3D
74LS32N
R35 470
B/QL
ROMCSL
A15
A14
RDRAM
SELL8
A7
A0
UE4
74LS138N
WRL
RDL
M1L
IORQF
INFEL
OUT7EL
OUTFEL
UC6P UE4P
HC91 - CPU
Hc91
5/12/10 11:47 PM
Sheet: 1/9


VCC
R1 10k
R2 10k
R13 10k
R3 10k
R4 10k
TD1
TD3
TD0
TD2
TD4
UA34
74LS373N
A13
A11
A10
A14
A15
A8
A12
A9
OC
ENC
GND
1N4148 D1 TA13
1N4148 D4 TA11
1N4148 D6 TA10
1N4148 D8 TA14
1N4148 D5 TA15
1N4148 D3 TA8
1N4148 D7 TA12
1N4148 D2 TA9
KB-CONN
DIP
UB3
74367N
1A1 1Y1
1A2 1Y2
1A3 1Y3
1A4 1Y4
2A1 2Y1
2A2 2Y2
1G
2G
D0
D2
D1
D3
D4
D6
RESETL
INFEL
EAR
C2 2n7
C3 470p
R10 10k
D9 1N4148
UA7A
LM324N
UC1E
74LS04N
R11 2k
T1 BD139
R12 1k
R19 330
UF7
74LS174N
D1
D0
D2
D3
D4
CLK
CLR
OUTFEL
MIC
RED
BLUE
GRN
BELL
R17 10k
R16 2k
UF7P UA34P UC1P UB3P
Interface Keyboard / Audio
Hc91
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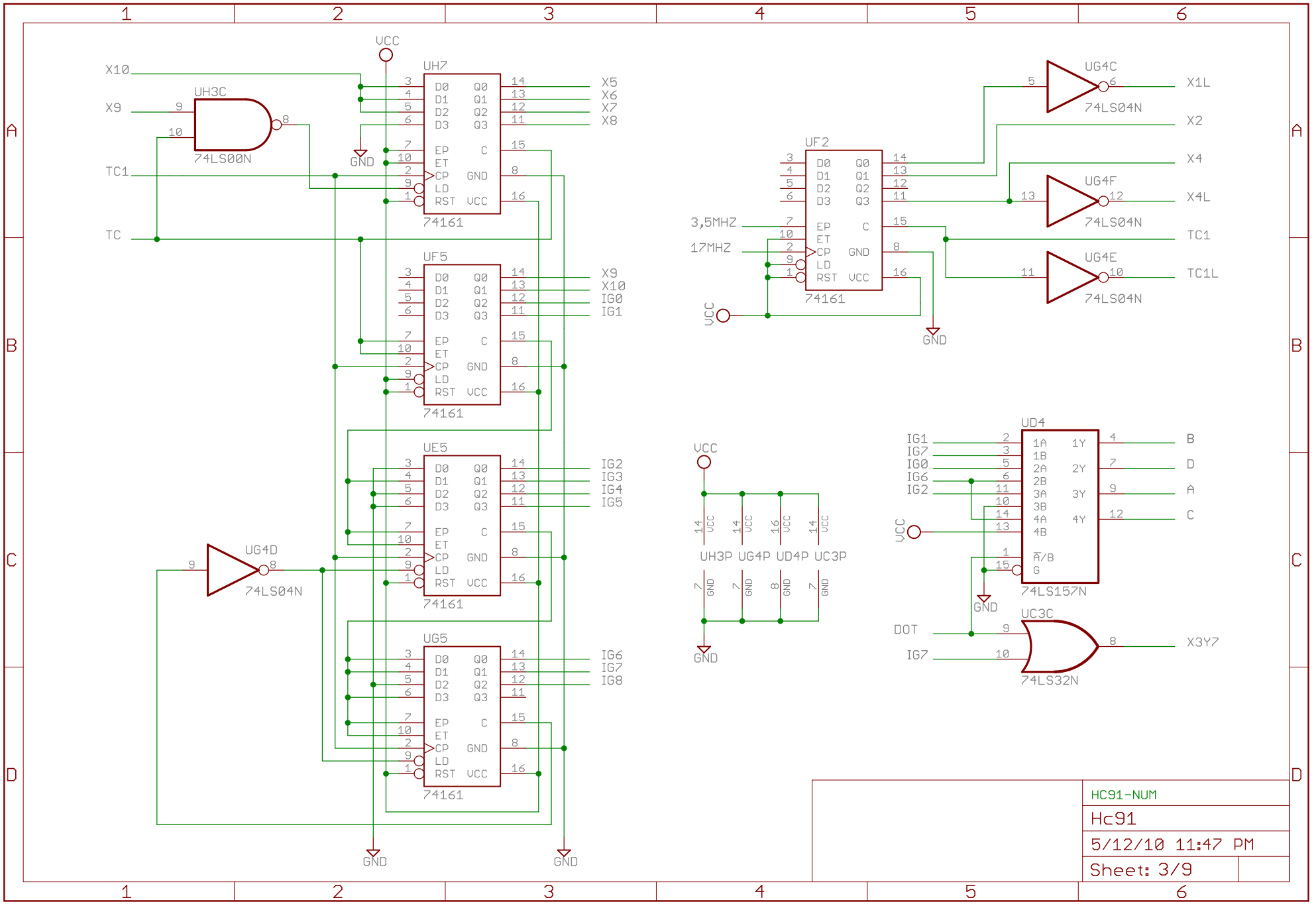
Sheet: 2/9


1
2
3
4
5
6
A
B
C
D
VCC
X10
X9
UH3C
74LS00N
TC1
TC
GND
UH7
74161
X5
X6
X7
X8
UF5
X9
X10
IG0
IG1
UE5
IG2
IG3
IG4
IG5
UG4D
74LS04N
UG5
IG6
IG7
IG8
UF2
3,5MHZ
17MHZ
UG4C
X1L
X2
X4
UG4F
X4L
TC1
UG4E
TC1L
UH3P UG4P UD4P UC3P
UD4
IG1
IG7
IG0
IG6
IG2
B
D
A
C
74LS157N
DOT
UC3C
X3Y7
74LS32N
HC91-NUM
Hc91
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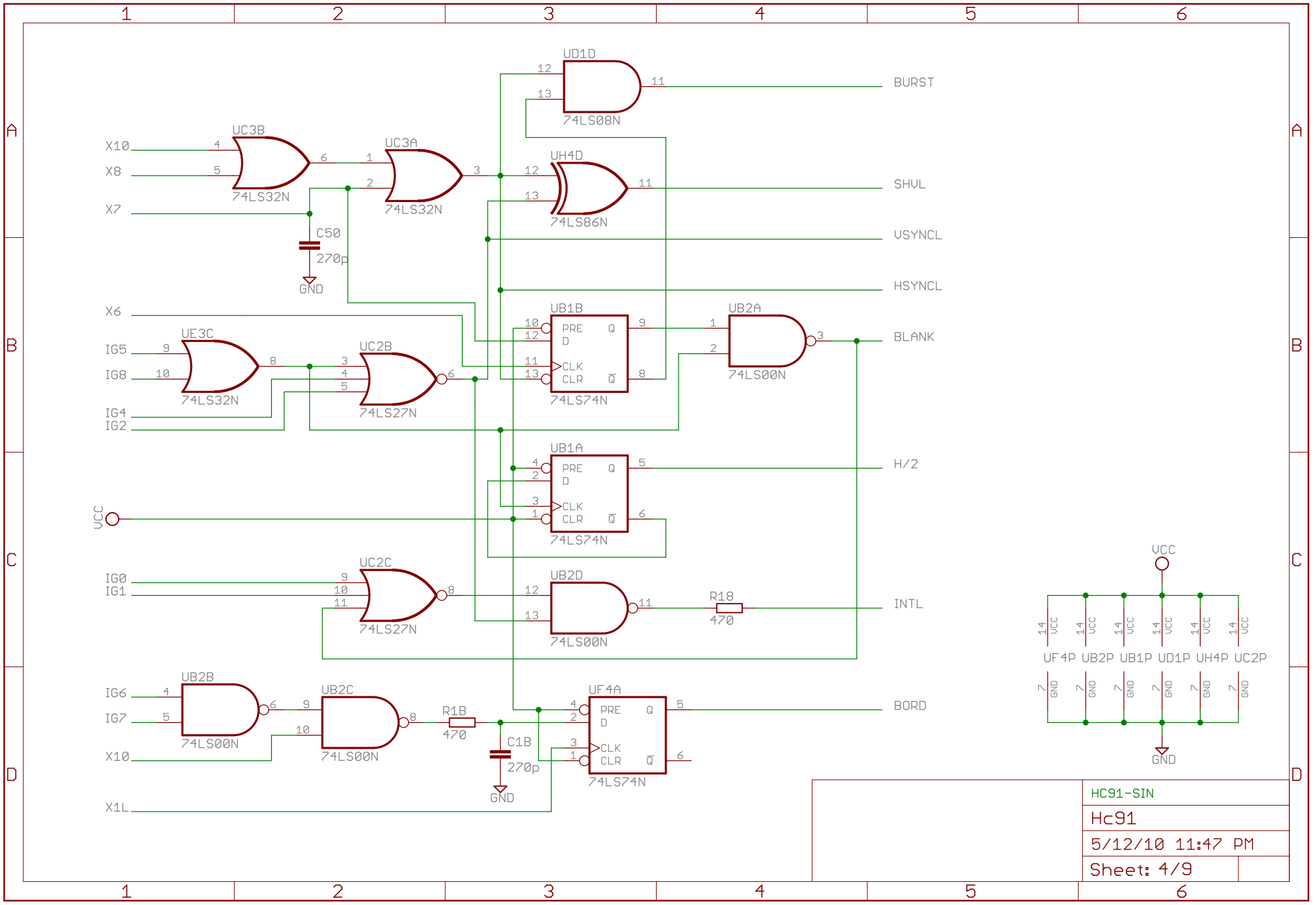
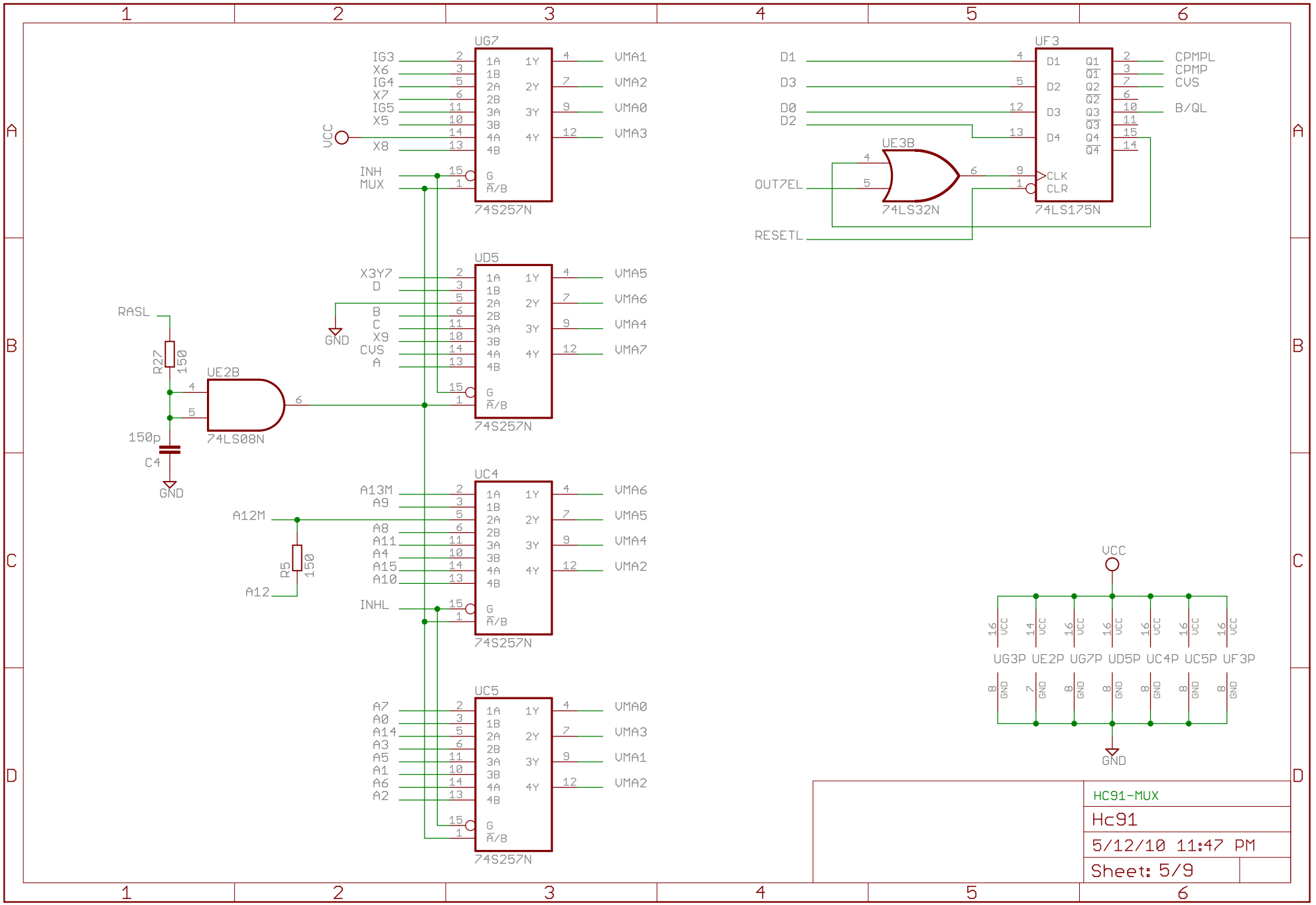
Sheet: 3/9


UD1D
74LS08N
BURST
UC3B
74LS32N
UC3A
74LS32N
UH4D
74LS86N
SHVL
X10
X8
X7
C50
270p
GND
VSYNCL
HSYNCL
X6
UB1B
UB2A
74LS00N
BLANK
UE3C
74LS32N
UC2B
74LS27N
IG5
IG8
IG4
IG2
74LS74N
UB1A
H/2
VCC
UC2C
74LS27N
IG0
IG1
UB2D
74LS00N
R18
470
INTL
UB2B
74LS00N
UB2C
74LS00N
IG6
IG7
X10
R1B
470
C1B
270p
GND
UF4A
74LS74N
BORD
X1L
VCC
UF4P UB2P UB1P UD1P UH4P UC2P
GND
HC91-SIN
Hc91
5/12/10 11:47 PM
Sheet: 4/9


UG7
IG3
X6
IG4
X7
IG5
X5
UCC
X8
INH
MUX
74S257N
VMA1
VMA2
VMA0
VMA3
UD5
X3Y7
D
B
C
X9
CVS
A
GND
74S257N
VMA5
VMA6
VMA4
VMA7
RASL
R27
150
UE2B
74LS08N
150P
C4
GND
UC4
A13M
A9
A12M
A8
A11
A4
A15
A10
R5
150
A12
INHL
74S257N
VMA6
VMA5
VMA4
VMA2
UC5
A7
A0
A14
A3
A5
A1
A6
A2
74S257N
VMA0
VMA3
VMA1
VMA2
UF3
D1
D3
D0
D2
UE3B
OUT7EL
RESETL
74LS32N
74LS175N
CPMPL
CPMP
CVS
B/QL
CLK
CLR
VCC
UG3P UE2P UG7P UD5P UC4P UC5P UF3P
GND
HC91-MUX
Hc91
5/12/10 11:47 PM
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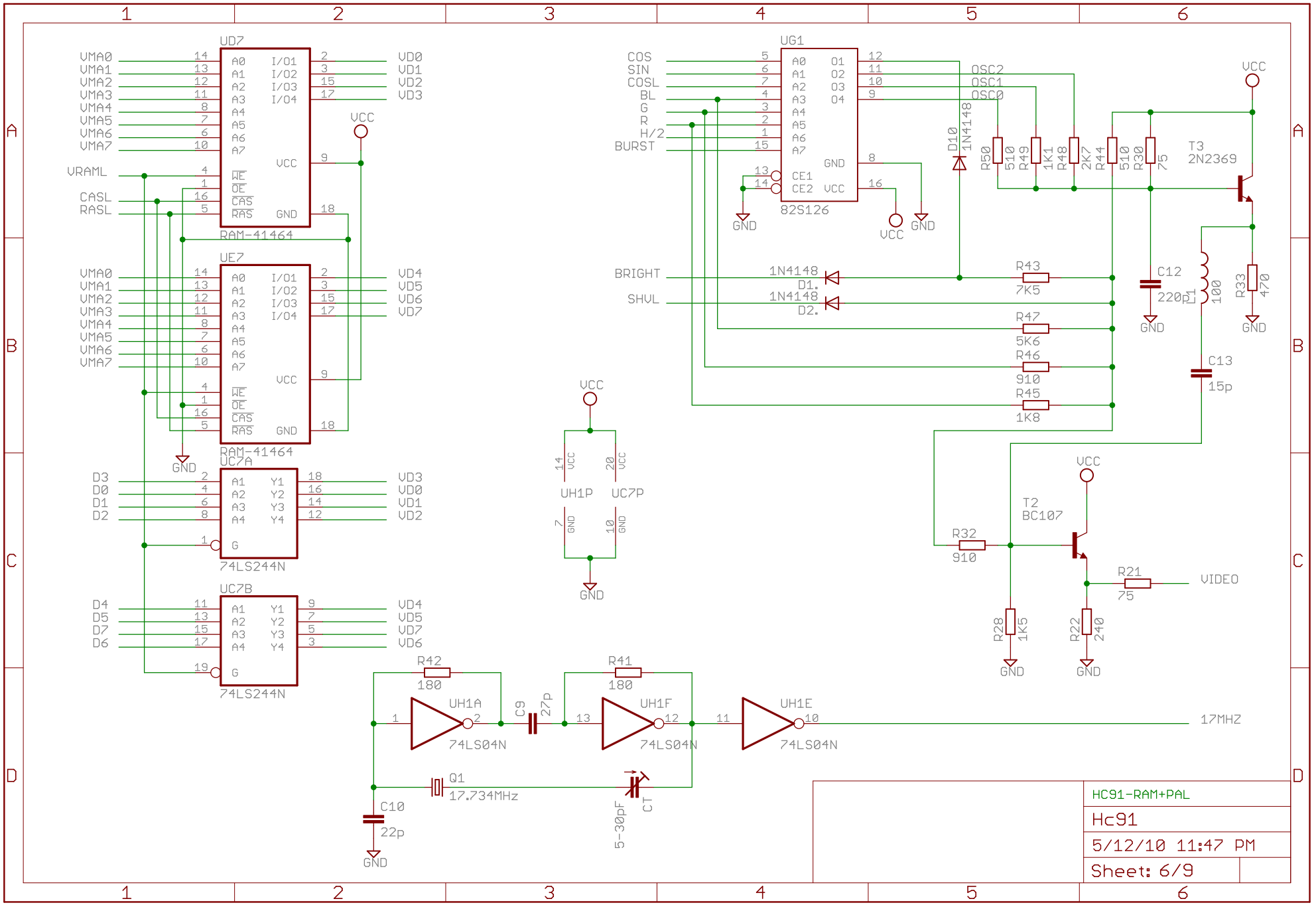
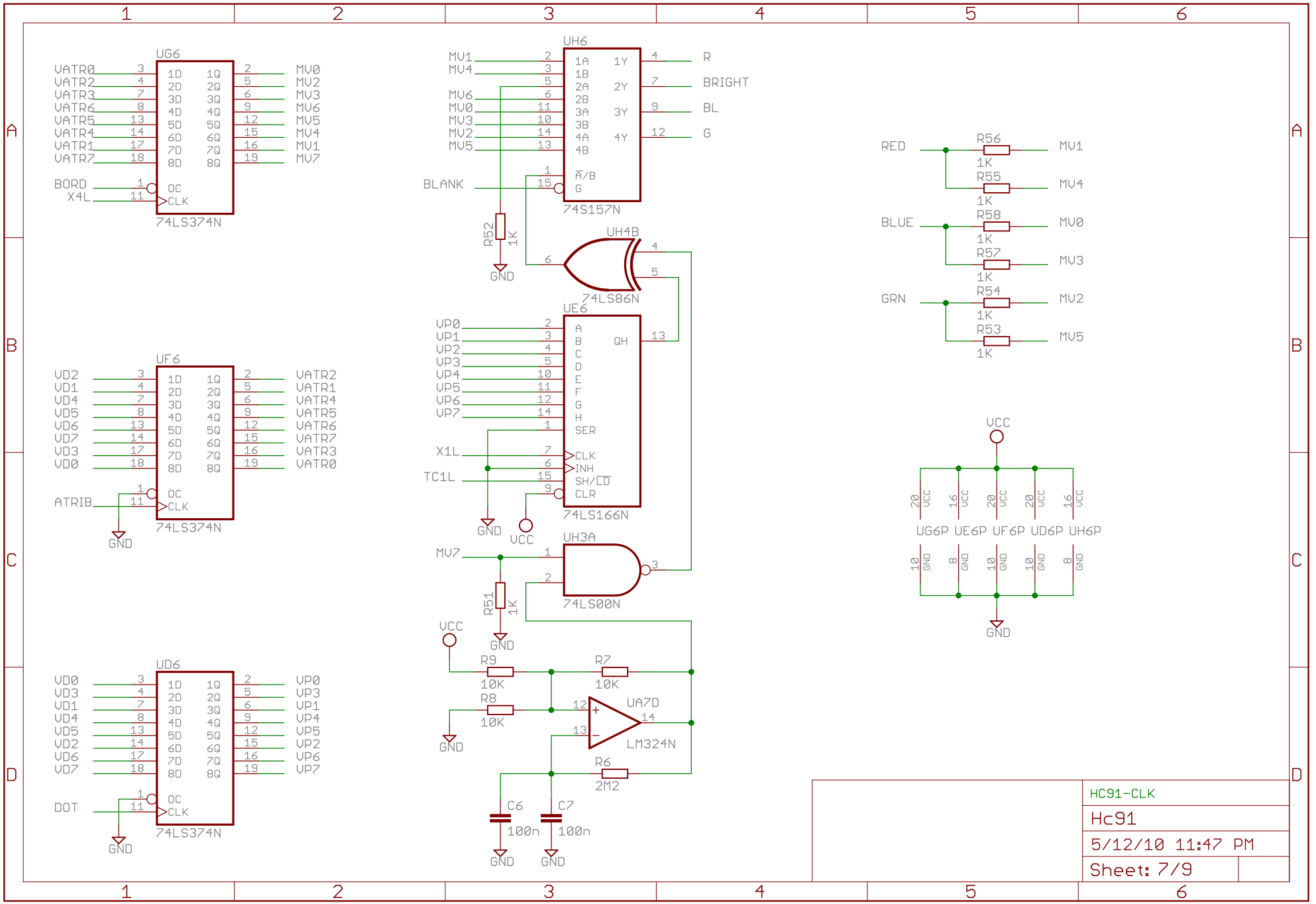

UD7
VMA0
VMA1
VMA2
VMA3
VMA4
VMA5
VMA6
VMA7
VRAML
CASL
RASL
VD0
VD1
VD2
VD3
VCC
GND
RAM-41464
UE7
VD4
VD5
VD6
VD7
UC7A
D3
D0
D1
D2
74LS244N
UC7B
D4
D5
D7
D6
UG1
COS
SIN
COSL
BL
G
R
H/2
BURST
OSC2
OSC1
OSC0
82S126
D10
1N4148
R50
510
R49
1K1
R48
2K7
R44
510
R30
75
T3
2N2369
BRIGHT
SHVL
D1.
D2.
R43
7K5
R47
5K6
R46
910
R45
1K8
C12
220p
100
R33
470
C13
15p
UH1P
UC7P
T2
BC107
R32
910
R21
75
VIDEO
R28
1K5
R22
240
R42
180
R41
180
UH1A
UH1F
UH1E
74LS04N
C9
27p
17MHZ
Q1
17.734MHz
C10
22p
5-30pF
CT
HC91-RAM+PAL
Hc91
5/12/10 11:47 PM
Sheet: 6/9


UG6
74LS374N
UF6
74LS374N
UD6
74LS374N
UH6
74S157N
UH4B
74LS86N
UE6
74LS166N
UH3A
74LS00N
UA7D
LM324N
R56
R55
R58
R57
R54
R53
R52
R51
R9
R8
R7
R6
C6
C7
10K
2M2
100n
1K
RED
BLUE
GRN
BLANK
BORD
X4L
ATRIB
DOT
X1L
TC1L
MV0
MV1
MV2
MV3
MV4
MV5
MV6
MV7
VATR0
VATR1
VATR2
VATR3
VATR4
VATR5
VATR6
VATR7
VD0
VD1
VD2
VD3
VD4
VD5
VD6
VD7
VP0
VP1
VP2
VP3
VP4
VP5
VP6
VP7
R
G
BL
BRIGHT
VCC
GND
UG6P UE6P UF6P UD6P UH6P
HC91-CLK
Hc91
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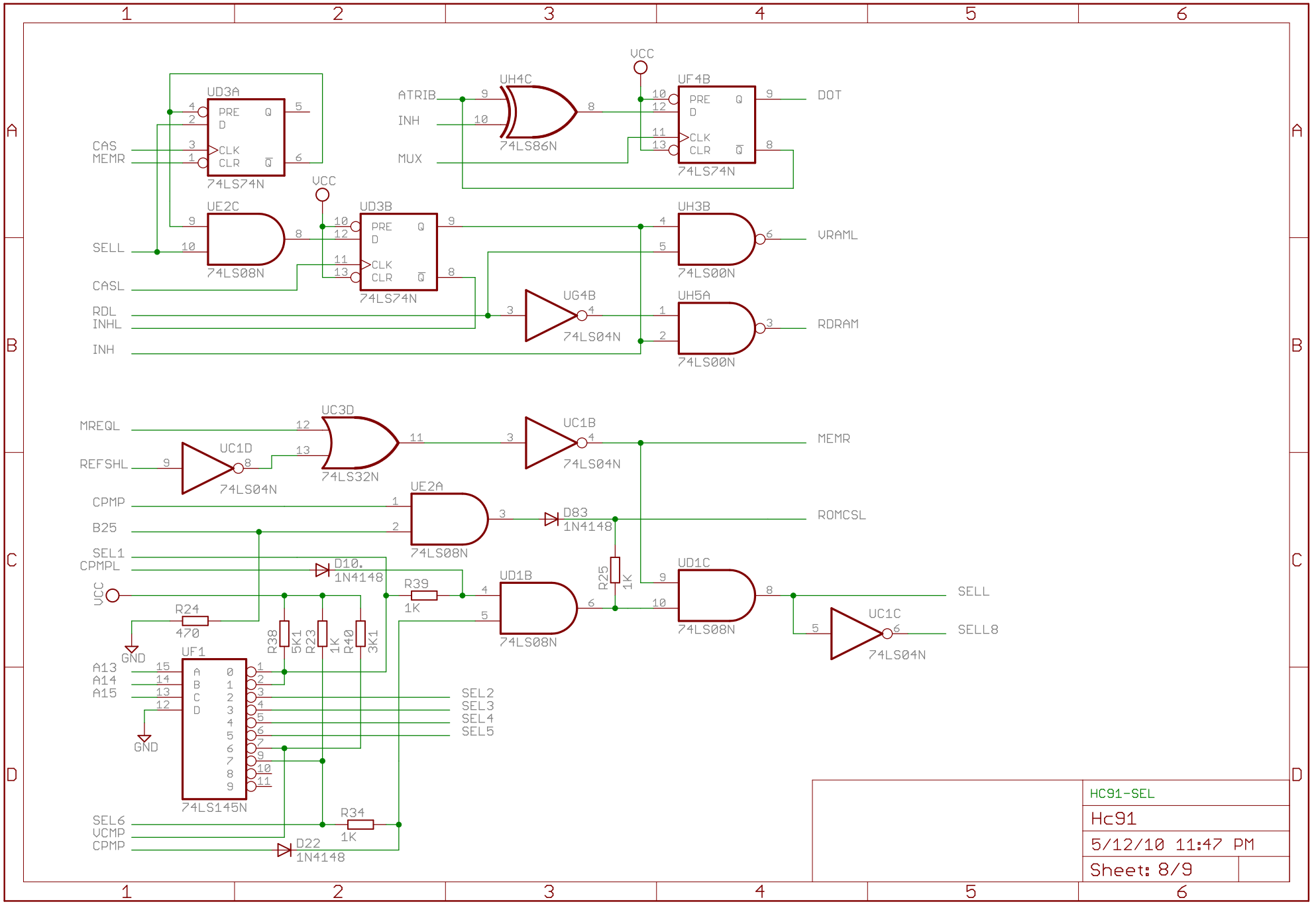
UD3A
PRE
D
CLK
CLR
Q
74LS74N
CAS
MEMR
UH4C
74LS86N
ATRIB
INH
MUX
VCC
UF4B
DOT
UE2C
74LS08N
SELL
CASL
UD3B
UH3B
VRAML
UG4B
74LS04N
UH5A
RDRAM
RDL
INHL
INH
MREQL
UC3D
74LS32N
UC1D
REFSHL
UC1B
MEMR
CPMP
UE2A
D83
1N4148
ROMCSL
B25
SEL1
CPMPL
D10.
R39
1K
R24
470
R38
5K1
R23
1K
R40
3K1
R25
1K
UD1B
UD1C
UC1C
SELL
SELL8
GND
UF1
A13
A14
A15
SEL2
SEL3
SEL4
SEL5
74LS145N
SEL6
VCMP
CPMP
R34
D22
HC91-SEL
Hc91
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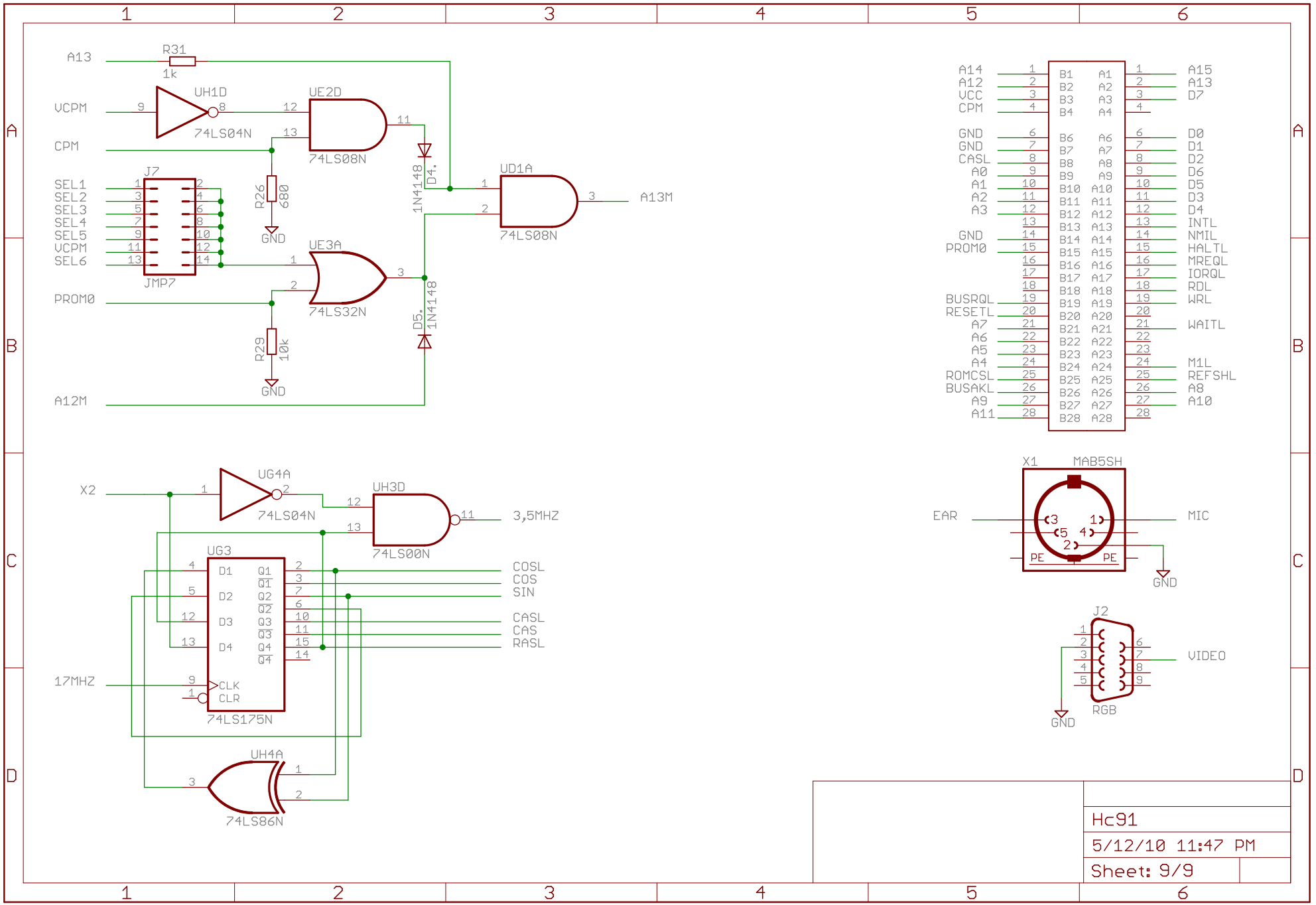
A13
R31
1k
VCPM
UH1D
74LS04N
UE2D
74LS08N
CPM
J7
SEL1
SEL2
SEL3
SEL4
SEL5
VCPM
SEL6
JMP7
R26
680
GND
1N4148
D4.
UD1A
74LS08N
A13M
UE3A
74LS32N
PROM0
R29
10k
D5.
1N4148
A12M
A14
A12
VCC
CPM
GND
GND
CASL
A0
A1
A2
A3
GND
PROM0
BUSRQL
RESETL
A7
A6
A5
A4
ROMCSL
BUSAKL
A9
A11
A15
A13
D7
D0
D1
D2
D6
D5
D3
D4
INTL
NMIL
HALTL
MREQL
IORQL
RDL
WRL
WAITL
M1L
REFSHL
A8
A10
X2
UG4A
74LS04N
UH3D
74LS00N
3,5MHZ
UG3
74LS175N
COSL
COS
SIN
CASL
CAS
RASL
17MHZ
UH4A
74LS86N
X1
MAB5SH
EAR
MIC
PE
PE
GND
J2
RGB
VIDEO
GND
Hc91
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